

**OPTIMIN®**

Data Sheet

**OPTIMICA
(DG)****DESCRIPTION :**

Aluminium - potassium silicate flakes produced from dry grinding of muscovite ore.

CHEMICAL ANALYSIS % :

SiO ₂	:	44.8%	Na ₂ O	:	0.5%
Al ₂ O ₃	:	35.3%	MgO	:	1.0%
K ₂ O	:	10.1%	Other	:	<0.1%
Fe ₂ O ₃	:	2.6%	LOI (@ 1000 deg C)	:	4.6%

PHYSICAL PROPERTIES :

pH	:	8 - 9.5
Water soluble (BS 1765)	:	0.5% maximum
Hardness (Moh)	:	2.5
S.G.	:	2.80
Oil Absorption	:	50-70%
Reactivity	:	Inert
Colour	:	Off white, pearlescent
Refractive Index	:	1.58
Phericity Factor	:	0,01
Melting Point	:	1200 deg C

TYPICAL SIZE GRADING :

% retained	<u>Flake</u>	<u>Coarse</u>	<u>Fine</u>	<u>Powder</u>
	10#	20#	40#	325#
>1mm	<20	<10	<5	
>0,6mm	40-60	30-50	<10	
>0,3mm	60-80	50-70	<20	<1
>0,15mm	<6	<8	20-40	<3
>0,075mm	<1	<2	<30	<5

USES :

Paints, cosmetics, coatings, insulations, welding electrodes, tyres, dusting agent, inert industrial fillers.

Completed :	T Carolin	Approved By _____	Approved :	S. Gregory
Title:	QUALITY Manager		Title :	Director
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